



-F3202DEX

F3203DEX

I-F4202DEX

IECEX/ATEX INTRINSICALLY SAFE RADIO











IEC Certifications

Mining: Ex ib I Mb : Ex ib IIC T4 Gb Gas Dust : Ex ib IIIC T110°C Db

-20°C<Ta<+55°C

IEC 60079-0 (2017), IEC 60079-11 (2011)

ATEX Certifications

Mining: I M2 Ex ib I Mb : II 2G Ex ib IIC T4 Gb : II 2D Ex ib IIIC T110°C Db

-20°C≤Ta≤+55°C

EN IEC 60079-0 (2018), EN 60079-11 (2012)

IP67 Dust-tight & Waterproof Protection

The IC-F3202DEX/F3203DEX series provides rugged protection against dust and water that is equivalent to IP67. The IC-F3202DEX/F3203DEX series can withstand 1m depth of water for 30 minutes and its dust-tight construction shuts out powder dust, sand and other objects.

IDAS™ Digital Mode Operation

The IC-F3202DEX/F3203DEX series provides can program NXDN™ Type-D single-site trunking and digital conventional as well as analog mode per channel. The following digital features are programmable.

- PTT ID (TX)
- Individual/Group calls Block decode
- Radio check (RX)
- Stun/kill/revive (RX)
- Call alert (RX)
- Remote monitor (RX) Emergency (TX)
- Digital voice scrambler (15-bit)
- Power ON/OFF status call (TX)
- RAN (Radio Access Number)
- Voting scan for multi-site conventional operation
- TX: Transmit, RX: Receive

Analogue Mode Compatible

The IC-F3202DEX/F3203DEX series has built-in 5-Tone, 2-Tone, CTCSS and DTCS signaling capability for analogue mode group communication and selective calling. The lone worker and man down functions automatically send an emergency signal to assist in worker safety. The radio is perfect for use as an analogue transceiver ready for future digital migration.

Other Features

- 16 memory channels with channel announcement function
- MDC 1200 PTT ID and emergency transmission DTMF autodial
- Three programmable buttons (including emergency red button)
- Low electrical resistivity body; Carrying case is not required
- 19.5-21 hours* operating time with BP-277EX (* 5: 5: 90 duty cycle with Power save.)
- Optional waterproof speaker-microphone, HM-203EX



IC-F3202DEX · IC-F4202DEX IC-F3203DEX · IC-F4203DEX

SPECIFICATIONS

		IC-F3202DEX IC-F3203DEX	IC-F4202DEX IC-F4203DEX		
GENERAI	L	<u> </u>			
Frequency	coverage	136-174 MHz	400-470 MHz		
Number of	channels	16 cha	16 channels		
Type of	EUR	16K0F3E, 14K0F3E, 8K50F3E, 4K00F1E/F1D			
emission	EXP		K50F3E, 4K00F1E/F1D		
Power supp	ply requirement	7.4 V DC nominal			
	ain (approx.)				
Tx Hig		550 mA			
	x. audio/Standby	300 mA (Internal SP)/110 mA (Digital mode)			
Antenna im		50 Ω			
	emperature range	-20°C to +55°C			
	s (W × H × D)				
	s not included)	63 × 144 × 50 mm	63 × 144 × 50 mm (With BP-277EX)		
` 1	•	258 g (Radio only)	250g (Radio only)		
Weight (ap	prox.)	466 g (With MB-94EX, BP-277EX & FA-SC55V)			
TRANSMI	ITTER	Too g (minimo o iziqui errena irrocco)	TOO 9 (Marine Order, or Erres arrivosors		
Output nov	ver (at 7.4 V DC)	1 W, 0.8 W, 0.6 W (Hi, L2, L1)			
	issible deviation	±5.0 kHz/±4.0 kHz/±2.5 kHz (W/M/N)			
Frequency		±1.0 ppm			
Spurious	EUR	± 1.0 ppm 0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz)			
emissions	EXP	66 dB min.			
	nd Noise (EXP)	50/46 dB typ. (W/N)	46/40 dB typ. (W/N)		
	nodulations (EUR)	54/53/50 dB typ. (W/M/N)	48/46/42 dB typ. (W/M/N)		
	nonic distortion	1.0/1.0/1.5% typ. (W/M/N) (@ AF 1 kHz 40% deviation)			
FSK error	ionic distortion	2.0% typ. (Digital)	1.5% typ. (Digital)		
	hone connector		nnector/2.2 k Ω		
RECEIVE		14 piil maia co	HITICOTOT/Z.Z KSE		
	Digital (5% BER)	–8 dBµV emf typ.	−9 dBµV emf typ.		
	Analog (EUR, 20 dB SINAD)		–5 dBuV emf typ.		
	Analog (EXP, 12 dB SINAD		0.22 μV typ.		
	hannel selectivity	78/75/70/62 dB typ. (W/M/N/D)	74/72/66/57 dB typ. (W/M/N/D)		
		85 dB typ. (W/M/N),	75 dB typ. (W/M/N),		
Spurious re	esponse	87 dBµV emf typ. (Digital)	79 dBµV emf typ. (Digital)		
EUR		67 dB typ. (W/M/N), 73 dBµV emf typ. (Digital)			
Intermodula	tion EXP	75/75/67 dB typ. (W/N/D)	74/74/73 dB typ. (W/N/D)		
Hum and	EUR (With CCITT filter)	53/51/48 dB typ. (W/M/N)	46/44/41 dB typ. (W/M/N)		
noise EXP (Without CCITT filter)			43/37 dB typ. (W/N/N)		
Audio outp		40/43 dB typ. (w/N) 43/37 dB typ. (w/N) 400 mW typ. (at 5% distortion with 32 Ω load)			
	beaker connector	14-pin multi-connector/32 Ω			
External St	Joaner Corridociol	14-pii1 muiti-ci	OTHICGIOI/OZ 32		

Measurements made in accordance with TIA-603, EN 300-086, EN 301-166. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

Chandard	MIL 810G		
Standard	Method	Procedure	
Low Pressure	500.5	I, II	
High Temperature	501.5	I, II	
Low Temperature	502.5	I, II	
Temperature Shock	503.5	I-C	
Solar Radiation	505.5	I	
Rain Blowing/Drip	506.5	I, III	
Humidity	507.5	II	
Salt Fog	509.5	_	
Dust Blowing	510.5	I	
Immersion	512.5	I	
Vibration	514.6	I	
Shock	516.6	I, IV	

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard	
	The second secon
Dust & Water	IP67 (Dust-tight and waterproof)

Supplied accessories: (May differ according to version)

- Battery pack, BP-277EX • Belt clip, MB-94EX
- Battery charger, BC-212EX
- AC adapter, BC-123S

OPTIONS









ANTENNAS • **FA-SC25V** : 136–150 MHz

• FA-SC55V : 150-174 MHz • FA-SC25U : 400-430 MHz • FA-SC57U: 430-470 MHz

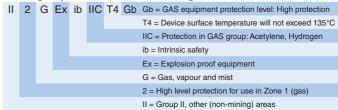
BC-123SA for USA SE for Europe, SV for Australia.

DO NOT use the transceiver with any other equipment other than the above options. The battery charger, BC-212EX must not be used in an explosive atmosphere.

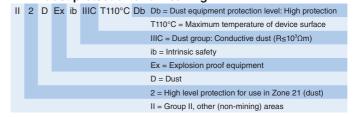
ATEX mining protection and meaning

	1	M2	Ex	ib I Mb		Mb	Mb = Mining equipment protection level: High protection
				I = Protection in mining group: Methane			
							ib = Intrinsic safety
							Ex = Explosion proof equipment
					M2 = Must be switched OFF in case of firedamp		
							I = Group I, Mining

ATEX gas protection and meaning



ATEX dust protection and meaning



* Please ask your dealer to ensure the ATEX and IECEx ratings are acceptable for the intended place of use

Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

Antenna

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